



US006439876B1

(12) **United States Patent**  
**Glaesener**

(10) **Patent No.:** **US 6,439,876 B1**  
(45) **Date of Patent:** **Aug. 27, 2002**

(54) **INJECTION MOLDING MACHINE HAVING  
A PLATEN FOR UNIFORM DISTRIBUTION  
OF CLAMPING FORCES**

(75) **Inventor:** Pierre Glaesener, Bissen (LU)

(73) **Assignee:** Husky Injection Molding Systems,  
Ltd. (CA)

(\*) **Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 09/699,927

(22) **Filed:** Oct. 30, 2000

(51) **Int. Cl.<sup>7</sup>** ..... B29C 45/64

(52) **U.S. Cl.** ..... 425/595; 100/295; 425/451.9;  
425/472

(58) **Field of Search** ..... 425/595, 451.9,  
425/470, 472; 100/295

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,613,475 A 9/1986 Hettinga ..... 264/328.1

5,066,217 A	11/1991	Fukuzawa et al. ....	425/589
5,110,283 A	5/1992	Bluml et al. ....	425/589
5,123,834 A	6/1992	Joyner ....	425/592
5,188,850 A	2/1993	Hirata et al. ....	425/589
5,249,951 A	10/1993	Leonhartsberger et al. .	425/589
5,593,711 A	1/1997	Glaesener ....	425/595
5,776,402 A	7/1998	Glaesener ....	264/239

**FOREIGN PATENT DOCUMENTS**

EP 0 192 814 4/1991 ..... B29C/45/17

**OTHER PUBLICATIONS**

Patent Abstracts of Japan, vol. 1997, No. 02, with respect to  
JP 08 267463 A of Oct. 15, 1996.

*Primary Examiner*—Tim Heitbrink

(74) *Attorney, Agent, or Firm*—Katten Muchin Zavis

(57) **ABSTRACT**

An injection molding machine includes a movable platen  
specifically adapted to uniformly distribute a clamp force to  
the mold half surfaces thereby reducing localized deflections  
and unwanted flash on the molded article.

**13 Claims, 5 Drawing Sheets**

